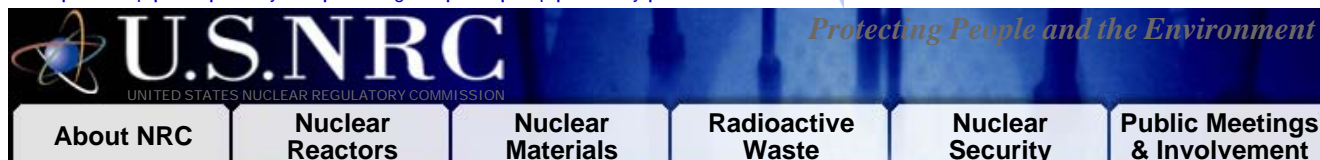


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SECPOP2000: Sector Population, Land Fraction, and Economic Estimation Program (NUREG/CR-6525, Rev. 1)

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Abstract

The Environmental Protection Agency's computer program, SECPOP, has been used to calculate population estimates since 1973. In 1997, SECPOP90, was created to run on a PC and to use 1990 population and economic data.

When the U.S. Census Bureau released 2000 census population data and 1997 economic data, Sandia National Laboratories was tasked to develop a new version, SECPOP2000, to include the new data, be compatible with current Windows operating systems, and also be compatible with the 1990 data.

SECPOP90 supports both site and regional analyses. Site analysis evaluates population, land use, and economic data on a polar grid centered on a prescribed site. Regional analysis screens potential sites in a geographical region against a population criterion.

SECPop2000 currently supports only site analysis. Regional analysis can be performed by using SECPop90 as a screening tool followed by a confirmatory calculation with SECPop2000 to evaluate potential sites with 2000 census data.

This report provides verification of the SECPop90 and SECPop2000 codes by comparing them with licensee-provided population data. The verification shows that SECPop90 and SECPop2000 provide reasonable population estimates. SECPop2000 also agrees well with census estimates from other sources.

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